

KEY TO TREES AND SHRUBS SUITABLE FOR PLANTING IN WEST VIRGINIA

¹ Soil Drainage Class:

Well Drained: Water is removed from the soil readily but not rapidly and available to plants most of the growing season. Wetness does not inhibit growth of roots for significant periods.

Moderately Well Drained: Water is removed from the soil somewhat slowly during some periods. These soils are wet for only short time during the growing season. They may contain a slowly pervious layer or receive periodic heavy rainfall or both.

Somewhat Poorly Drained: Water is removed slowly enough that the soil is wet for significant periods during the growing season. Wetness markedly restricts the growth of some plants. They commonly have a slowly pervious layer or receive periodic heavy rainfall or both.

Poorly Drained: Water is removed so slowly that the soil remains saturated for significant portions or remains wet for long periods during the growing season. Free water is commonly at the surface. Poor drainage may result from high water tables, slowly pervious layers within the profile, seepage or any combination of these factors.

² **Shade Tolerance:** Describes the relative tolerance for this plant to grow in shade conditions.

Intolerant: Will not tolerate shaded conditions.

Intermediate: Will tolerate partially shaded conditions.

Tolerant: Will tolerate full shade and usually does not prefer full sun.

³ **Height at 20 Years:** Under optimum conditions is the approximate maximum height at 20 years in feet.

⁴ **Mature Height:** The approximate height of the plant at maturity under good conditions.

⁵ **Native:** The plants listed in this column that are marked "yes" are considered native (i.e., they occur naturally in West Virginia). This listing of species is not all-inclusive. There are many more native plants which occur and could be suitable for use in conservation plantings.

⁶ **Windbreaks Screens Barriers or Other:** A spacing in this column indicates that this plant is suited to linear plantings designed to hide unsightly areas from public view, reduce noise, function as windbreaks or be suitable for some form of ornamental planting.

⁷ Wildlife

Food: This plant is suited to provide wildlife food in the form of either browse of foliage, twigs, bark or fruit.

Cover: This plant is suited to provide winter cover, nesting cover or shelter by its growth characteristics.

Corridors: These plants are suited to use as corridors or travel lanes including riparian corridors through which wildlife may travel between habitat types. Planted rows should be staggered.

⁸ **Timber Production Spacing:** This spacing should be used if timber production is desired.

⁹ Additional Plant Information Available:

Plant Facts: Information from the USDA Plants database that provide brief descriptions of a plant, its uses and offer establishment recommendations.

Plant Guide: Information from the USDA Plants database that is similar to Plant Sheets but are usually more extensive and more narrative, and are typically referenced to source documents.

¹⁰ Commercial Availability

Readily: Many varieties exist and/or is routinely available through commercial state nurseries and/or Plant Material Centers.

Somewhat Available: Somewhat limited availability of planting stock especially from commercial nurseries and may be more readily available from nurseries specializing in native plants or from regional Plant Material Centers.

Rarely: Very difficult to locate plant stock or no known cultivated varieties exist. May only be available from native plant nurseries, Plant Material Centers or from localized sources.

Table1
Shrubs Suitable for Establishment

SHRUBS	Soil Drainage Class ¹	Shade Tolerance ²	Height at 20 Years ³	Aprox. Height at Maturity ⁴	Native ⁵	Suitable Use(s)					Additional Plant Information Available ⁸	Remarks	Commercial Availability ⁹
						Windbreaks Screens Barriers or Other ⁶	Wildlife ⁷			Wildlife Spacing			
							Food	Cover	Corridors				
Alder, Smooth (<i>Alnus serrulata</i>)	Somewhat Poorly - Poorly	Tolerant	10 ft	20 ft	Yes		X		X	5-8 ft	Plant Facts	Adapted to wetter sites and along streams below 2600 ft. Good wetland wildlife cover and food source.	Readily
Alder, Speckled (<i>Alnus rugosa</i>)	Somewhat Poorly - Poorly	Intermediate	12 ft	16 ft	Yes		X		X	5-8 ft	Plant Guide	Adapted to wetter sites and along streams above 2600 ft. Good wetland wildlife cover and food source.	Readily
Arrowwood (<i>Viburnum dentatum</i>)	Moderately Well - Poorly	Intermediate	10 ft	10 ft	Yes		X	X	X	3-6 ft	Plant Facts Plant Guide	Excellent wildlife food source. Adapted for wetter conditions	Somewhat Available
Blueberry, Highbush (<i>Vaccinium corymbosum</i>)	Moderately Well - Poorly	Intolerant	6 ft	10 ft	Yes		X			3-6 ft	Plant Facts Plant Guide	Adapted to acidic wet conditions. Site specific and sometimes hard to establish.	Readily
Buttonbush (<i>Cephalanthus occidentalis</i>)	Somewhat Poorly - Poorly	Tolerant	10 ft	20 ft	Yes		X	X		5-8 ft	Plant Facts Plant Guide	Only suited for very wet sites. Will tolerate inundation. Provides food and cover for waterfowl.	Rarely
Chokeberry, Red (<i>Photinia pyrifolia</i>)	Somewhat Poorly - Poorly	Intolerant	5 ft	5 ft	Yes		X			3-6 ft	No	Low-growing attractive shrub and wildlife food plant. Birds utilize the fruit throughout the winter months. Frequently used as an ornamental	Readily
Crabapple, Sargent's (<i>Malus sargentii</i>)	Well - Somewhat Poorly	Intolerant	10 ft	10 ft	No	2-3 ft	X			3-6 ft	No	Has persistent fruit that is somewhat valuable to wildlife through winter months. Attractive and hardy.	Readily
Crabapple, Siberian (<i>Malus baccata</i>)	Well - Somewhat Poorly	Intolerant	10 ft	10 ft	No	2-3 ft	X			3-6 ft	No	Extremely cold hearty fruit bearing tree-shrub. Wildlife utilize the fruit. There are many cultivars.	Readily
Crabapple, Southern (<i>Malus angustifolia</i>)	Well - Moderately Well	Intermediate	15 ft	25 ft	Yes	2-3 ft	X			5-8 ft	Plant Facts	If near red cedars keep a minimum distance of 500 ft to prevent spread of cedar apple rust.	Rarely
Crabapple, Sweet (<i>Malus coronaria</i>)	Well - Moderately Well	Intermediate	10 ft	25 ft	Yes	2-3 ft	X			5-8 ft	No	Native crabapple common throughout the state.	Readily
Cranberry, Highbush (<i>Viburnum trilobum</i>)	Moderately Well - Poorly	Intolerant	12 ft	12 ft	Yes	2-3 ft	X	X		3-6 ft	Plant Facts Plant Guide	Attractive screen and hedgerow plant. Useful in ornamental and wildlife plantings.	Readily
Dogwood, Flowering (<i>Cornus florida</i>)	Well - Somewhat Poorly	Tolerant	20 ft	30 ft	Yes	2-3 ft	X	X		4-8 ft	Plant Facts Plant Guide	Berries eaten by songbirds, grouse, turkey, quail, squirrels; browsed by deer, rabbits. Often used as an ornamental.	Readily
Dogwood, Gray (<i>Cornus racemosa</i>)	Moderately Well - Somewhat Poorly	Tolerant	10 ft	15 ft	Yes	2-3 ft	X	X		5-8 ft	Plant Facts	Excellent for small screens, streambank stabilization and as an ornamental.	Readily
Dogwood, Redosier (<i>Cornus sericea</i>)	Somewhat Poorly - Poorly	Intermediate	10 ft	20 ft	Yes	2-3 ft		X	X	5-8 ft	Plant Guide	Excellent streambank cover. With some wildlife benefits.	Readily
Dogwood, Silky (<i>Cornus amomum</i>)	Well - Somewhat Poorly	Tolerant	12 ft	12 ft	Yes	2-3 ft	X	X	X	3-6 ft	Plant Facts	Stoloniferous. Produces fruit in 3 -5 years. Excellent wildlife plant.	Readily
Elderberry (<i>Sambucus canadensis</i>)	Well - Somewhat Poorly	Intolerant	7 ft	7 ft	Yes		X	X	X	3-6 ft	Plant Facts Plant Guide	Excellent all around wildlife plant. Suckers freely. Many species of birds and mammals utilize the fruit.	Readily
Hawthorn, Washington (<i>Crataegus phaenopyrum</i>)	Well - Somewhat Poorly	Intermediate	25 ft	25 ft	Yes	3-6 ft		X	X	5-8 ft	No	Provides excellent wildlife cover. Not as prone to spreading as some introduced hawthorns.	Somewhat Available
Hazelnut, American (<i>Corylus americana</i>)	Well - Moderately Well	Tolerant	10 ft	10 ft	Yes		X	X		3-6 ft	Plant Guide	Provides cover and nesting for wildlife. The leaves, twigs, and catkins are browsed by rabbits and deer.	Somewhat Available
Holly, American (<i>Ilex opaca</i>)	Well - Somewhat Poorly	Tolerant	20 ft	60 ft	Yes	3-6 ft		X	X	5-8 ft	Plant Facts	Evergreen. It is important to plant males as well as females if berry production is desired. Used as winter cover and ornamental.	Readily
Hornbeam, American (<i>Carpinus caroliniana</i>)	Moderately Well - Somewhat Poorly	Tolerant	15 ft	40 ft	Yes		X		X	5-8 ft	Plant Facts Plant Guide	This species produces large amounts of seed eaten by many birds and mammals. Found along streams and rivers. Excellent riparian	Somewhat Available
Lespedeza, Bicolor (<i>Lespedeza bicolor</i>)	Well - Moderately Well	Intolerant	6 ft	6 ft	No		X			2 ft	Plant Facts	This semi-woody sub-shrub provides an excellent food source for many species of wildlife. Best seeded directly.	Readily
Lespedeza, Shrub (<i>Lespedeza thunbergii</i>)	Well - Somewhat Poorly	Intolerant	8 ft	8 ft	No		X			2-3 ft	Plant Facts	As above - This semi-woody sub-shrub provides an excellent food source for many species of wildlife. Best seeded directly.	Readily
Locust, Bristly (<i>Robinia hispida</i>)	Well - Moderately Well	Intolerant	7 ft	7 ft	Yes	3-6 ft				--	No	Excellent for erosion control. Minimal wildlife value. Mainly used for reclamation of mined sites. Many varieties available.	Readily
Nannyberry (<i>Viburnum lentago</i>)	Well - Poorly	Tolerant	25 ft	25 ft	Yes	3-6 ft	X	X	X	5-8 ft	Plant Guide Plant Facts	Excellent wildlife, hedgerow, screen and ornamental shrub suited to a variety of sites. Commercially available and common throughout WV.	Readily
Ninebark (<i>Physocarpus opulifolius</i>)	Well - Somewhat Poorly	Intolerant	10 ft	10 ft	Yes		X			5-8 ft	Plant Guide	Tolerates a wide variety of conditions including nuclear attack. Difficult to eradicate once established. Used by a variety of riparian	Readily
Pawpaw (<i>Asimina triloba</i>)	Moderately Well - Poorly	Tolerant	30 ft	35 ft	Yes		X			4-8 ft	Plant Guide	Site specific and often difficult to establish. Common in floodplains in the understory. Good wildlife food source.	Somewhat Available

Table1
Shrubs Suitable for Establishment

SHRUBS	Soil Drainage Class ¹	Shade Tolerance ²	Height at 20 Years ³	Aprox. Height at Maturity ⁴	Native ⁵	Suitable Use(s)				Additional Plant Information Available ⁸	Remarks	Commercial Availability ⁹	
						Windbreaks Screens Barriers or Other ⁶	Wildlife ⁷						Wildlife Spacing
							Food	Cover	Corridors				
Pepperbush, Mountain Sweet (Clethra acuminata)	Well - Somewhat Poorly	Tolerant	8 ft	15 ft	Yes	2-6 ft		X		5-8 ft	No	Attractive summer-flowering shrub usually found on sandstone based soils.	Rarely
Sourwood (Oxydendrum arboreum)	Somewhat Poorly - Poorly	Intermediate	20 ft	35 ft	Yes		X			5-8 ft	No	Beautiful native ornamental often difficult to establish. Wildlife browse the sour tasting foliage. Prized for honey production.	Readily
Spicebush, Northern (Lindera benzoin)	Moderately Well - Poorly	Intermediate	12 ft	15 ft	Yes		X			5-8 ft	Plant Guide	Attractive fragrant understory tree common throughout the state. Sometimes planted as an ornamental.	Readily
Steeplebush (Spiraea tomentosa)	Somewhat Poorly - Poorly	Intolerant	4 ft	6 ft	Yes	2-3 ft	X		X	3-6 ft	No	Rhizomatous growth form that provides dense wildlife cover relatively quickly. Usually found on wetter sites.	Readily
Swamp Rose (Rosa palustris)	Somewhat Poorly - Poorly	Tolerant	8 ft	8 ft	Yes	2-3 ft		X	X	3-6 ft	Plant Guide	Prefers permanent saturation. May spread under suitable conditions.	Somewhat Available
Possumhaw (Viburnum cassinoides)	Somewhat Poorly - Poorly	Tolerant	15 ft	15 ft	Yes		X	X	X	5-8 ft	No	Excellent wildlife shrub in wetter conditions. Suited to the eastern mountain counties.	Rarely
Winterberry (Ilex verticillata)	Somewhat Poorly - Poorly	Intermediate	10 ft	10 ft	Yes	3-6 ft	X	X	X	3-6 ft	Plant Facts	Fruit is poisonous to humans. High elevation deciduous holly suited to the eastern mountain counties. Excellent for wildlife.	Readily
Willow, Purpleosier (Salix purpurea)	Well - Poorly	Intolerant	10 ft	10 ft	No	2-3 ft				--	Plant Facts	Excellent streambank stabilization and bio engineering plant suitable to dormant plantings. Many cultivars are available.	Somewhat Available
Willow (Salix sp.)	Well - Poorly	Intolerant	10 ft	10 ft	Yes	2-3 ft				--	No	Many varieties of native and non-native varieties. Excellent streambank stabilization and bio engineering plant suitable to dormant plantings.	Somewhat Available
Witch Hazel (Hamamelis virginiana)	Well - Somewhat Poorly	Intermediate	15 ft	20 ft	Yes		X			5-8 ft	No	Good native wildlife food source. Sometimes hard to establish.	Readily
Yew, American (Taxus canadensis)	Well - Moderately Well	Tolerant	5 ft	5 ft	Yes	2-3 ft		X		3-6 ft	No	Used as an ornamental. Birds eat the berries. Adapted to high elevations in the eastern mountain counties. Browsed heavily by	Readily

Table 2
Trees Suitable for Establishment

TREES	Soil Drainage Class ¹	Shade Tolerance ²	Height at 20 Years ³	Aprox. Height at Maturity ⁴	Native ⁵	Suitable Use(s)						Additional Plant Information Available ⁹	Remarks	Commercial Availability ¹⁰
						Windbreaks Screens Barriers or Other ⁶	Wildlife ⁷			Wildlife Spacing	Wood Production Spacing ⁸			
							Food	Cover	Corridors					
Alder, European Black (<i>Alnus glutinosa</i>)	Well - Moderately Well	Intermediate	40 ft	60 ft	No	8-12 ft *			X	8-12 ft		Plant Facts	Excellent for reclamation. Nitrogen fixer. Good for hedgerow and windbreaks where non-natives are acceptable.	Readily
Ash, Green (<i>Fraxinus pennsylvanica</i>)	Moderately Well - Poorly	Intermediate	35 ft	70 ft	Yes	8-12 ft	X		X	8-12 ft		Plant Facts	The seeds are eaten by a number of birds and mammals. Extensively planted as a shade and ornamental tree.	Readily
Ash, White (<i>Fraxinus americana</i>)	Well - Somewhat Poorly	Intermediate	40 ft	80 ft	Yes	8-12 ft	X	X	X	8-12 ft	20 X 20 ft	Plant Guide	Excellent all purpose ornamental, wildlife, and shade tree. Has commercial timber value.	Readily
Basswood (<i>Tilia americana</i>)	Well - Moderately Well	Intermediate	45 ft	80 ft	Yes	8-12 ft	X		X	8-12 ft	6 - 8 ft	Plant Guide	Basswood is good browse and buds are important for birds and deer in winter. Planted as a shade tree or ornamental.	Readily
Birch, Black (<i>Betula nigra</i>)	Well - Somewhat Poorly	Intolerant	40 ft	80 ft	Yes			X	X	8-12 ft		Plant Facts Plant Guide	Native riparian tree. Its young twigs, buds, foliage and seeds are used by a variety of wildlife.	Somewhat Available
Blackgum (<i>Nyssa sylvatica</i>)	Well - Somewhat Poorly	Tolerant	30 ft	95 ft	Yes		X			8-12 ft		Plant Facts Plant Guide	Black bears, foxes, wood ducks, wild turkeys, robins, brown thrashers, thrushes, and flickers frequently eat the fruit.	Readily
Boxelder (<i>Acer negundo</i>)	Well - Poorly	Intermediate	35 ft	60 ft	Yes				X	8-12 ft		Plant Guide	Very quick growing. Found along streams and frequently flooded areas. Relatively short lived and often disease prone.	Readily
Cedar, Northern White (<i>Thuja occidentalis</i>)	Well - Somewhat Poorly	Intermediate	25 ft	50 ft	Yes	8-12 ft		X		8-12 ft		Plant Guide	Also called Arborvitae. Popular ornamental for screens and hedgerows in limestone areas. Provides some nesting cover.	Readily
Cedar, Atlantic White (<i>Chamaecyparis thuyoides</i>)	Moderately Well - Poorly	Tolerant	20 ft	90 ft	No	8-12 ft		X		8-12 ft		Plant Facts Plant Guide	Similar to Arborvitae. A coastal species not native to WV. Tolerant of wetter conditions.	Readily
Cherry, Black (<i>Prunus serotina</i>)	Well - Somewhat Poorly	Intolerant	40 ft	100 ft	Yes	8-12 ft	X		X	8-12 ft	20 X 20 ft	Plant Guide	Valuable wildlife food source. Used for commercial timber and ornamental purposes on a wide variety of soils.	Readily
Chestnut, Chinese (<i>Castanea mollissima</i>)	Well - Moderately Well	Intolerant	25 ft	70 ft	No	8-12 ft	X			8-12 ft		No	Mostly planted as an ornamental. Some wildlife utilize the chestnuts.	Readily
Cucumber-Tree (<i>Magnolia acuminata</i>)	Well - Moderately Well	Intolerant	40 ft	100 ft	Yes	8-12 ft			X	8-12 ft	6 - 8 ft	No	Beautiful native tree common throughout WV. Minimal wildlife value. Sometimes used as an ornamental and timber species.	Readily
Cottonwood, Eastern (<i>Populus deltoides</i>)	Well - Somewhat Poorly	Intermediate	50 ft	120 ft	Yes	8-12 ft		X		8-12 ft		Plant Facts	Fast growing and used in reclamation. Hybrids make good selections for windbreaks in multi-row installations.	Readily
Fir, Douglas (<i>Pseudotsuga menziesii</i>)	Well - Moderately Well	Intermediate	40 ft	200 ft	No	8-12 ft		X		8-12 ft		Plant Facts Plant Guide	One of the world's most important timber species. Excellent as wildlife, windbreak, and Christmas tree.	Readily
Hackberry (<i>Celtis occidentalis</i>)	Well - Somewhat Poorly	Intermediate	40 ft	70 ft	Yes	8-12 ft	X		X	8-12 ft		Plant Facts Plant Guide	Birds use the mature trees for nesting sites and feed on the fruit. Young stands also provide shelter for game birds and rabbits.	Readily
Hemlock, Eastern (<i>Tsuga canadensis</i>)	Well - Somewhat Poorly	Tolerant	20 ft	100 ft	Yes	8-12 ft		X	X	8-12 ft		Plant Guide	This tree is versatile as a hedge, large timber species, screen and wildlife tree. Different cultivars exist. Native and attractive.	Readily
Hickory, Shagbark (<i>Carya ovata</i>)	Well - Moderately Well	Intermediate	15 ft	90 ft	Yes		X			8-12 ft		No	Develops deep taproot in the first few years. Needs deep alluvial soils. Slow growing. Excellent nut producer. Some timber value.	Readily
Honeylocust (<i>Gleditsia triacanthos</i>)	Well - Somewhat Poorly	Intolerant	35 ft	80 ft	No	8-12 ft						Plant Guide	Planted as a hardy and fast-growing ornamental. Minimal wildlife value. Highly regarded in urban settings with many cultivars.	Readily
Larch, Japanese (<i>Larix kaempferi</i>)	Well - Somewhat Poorly	Intolerant	20 ft	100 ft	No	8-12 ft *						No	Deciduous conifer used primarily as an ornamental and timber trainer. Minimal wildlife value.	Readily
Locust, Black (<i>Robinia pseudoacacia</i>)	Well - Somewhat Poorly	Intermediate	40 ft	70 ft	Yes	8-12 ft *	X		X	8-12 ft		Plant Facts	Easy to establish. Early successional species and may be relatively short lived. Bee attractant. Nitrogen fixing species.	Readily
Maple, Red (<i>Acer rubrum</i>)	Well - Poorly	Intermediate	40 ft	90 ft	Yes	8-12 ft		X	X	8-12 ft		Plant Facts Plant Guide	Valued as native ornamental. Early blooming and important as an early pollinator for many insects. Grows in almost any condition.	Readily
Maple, Silver (<i>Acer saccharinum</i>)	Moderately Well - Poorly	Intermediate	45 ft	80 ft	Yes	8-12 ft		X	X	8-12 ft		Plant Guide Plant Facts	Important as cavity tree and somewhat important as a wildlife food source. May be disease prone and susceptible to storm damage.	Readily
Maple, Sugar (<i>Acer saccharum</i>)	Well - Somewhat Poorly	Tolerant	20 ft	100 ft	Yes	8-12 ft		X	X	8-12 ft		Plant Guide	Popular and long-lived shade and ornamental tree. Tolerates a wide range of conditions. Important for cavity nesting wildlife.	Readily
Mulberry, Red (<i>Morus rubra</i>)	Well - Somewhat Poorly	Intermediate	45 ft	70 ft	Yes		X		X	8-12 ft		Plant Guide	Excellent wildlife tree for a variety of species especially birds. Sometimes hard to establish. Very site specific.	Readily
Oak, Chinquapin (<i>Quercus muehlenbergii</i>)	Well - Moderately Well	Intolerant	40 ft	80 ft	Yes	8-12 ft	X		X	8-12 ft		No	Rare throughout its range. Site specific to alkaline soils and limestone outcropped areas. Good riparian species.	Readily
Oak, Northern Red (<i>Quercus rubra</i>)	Well - Moderately Well	Intermediate	35 ft	100 ft	Yes	8-12 ft	X		X	8-12 ft	20 X 20 ft	Plant Guide	One of our most important and handsome oaks. Important as a wildlife food source, timber species and ornamental.	Readily
Oak, Overcup (<i>Quercus lyrata</i>)	Moderately Well - Poorly	Intermediate	30 ft	80 ft	No	8-12 ft	X		X	8-12 ft	20 X 20 ft	Plant Guide	Often planted for timber and ornamental. Planted to improve wildlife habitat for bottomland restoration. Native to the mid-west.	Readily

Table 2
Trees Suitable for Establishment

TREES	Soil Drainage Class ¹	Shade Tolerance ²	Height at 20 Years ³	Aprox. Height at Maturity ⁴	Native ⁵	Suitable Use(s)						Additional Plant Information Available ⁹	Remarks	Commercial Availability ¹⁰
						Windbreaks Screens Barriers or Other ⁶	Wildlife ⁷			Wildlife Spacing	Wood Production Spacing ⁸			
							Food	Cover	Corridors					
Oak, Pin (<i>Quercus palustris</i>)	Moderately Well - Poorly	Intolerant	40 ft	100 ft	Yes	8-12 ft	X			8-12 ft		Plant Facts	Adapted to wetter sites. Good mast producer and attractive ornamental. Utilized by various wildlife especially wood ducks.	Readily
Oak, Post (<i>Quercus stellata</i>)	Well - Moderately Well	Intermediate	25 ft	80 ft	Yes	8-12 ft	X		X	8-12 ft		No	Tolerates harsh conditions and drought. Slow growing and may be susceptible to chestnut blight. Sometimes used as an ornamental.	Somewhat Available
Oak, Shingle (<i>Quercus imbricaria</i>)	Well - Moderately Well	Intolerant	30 ft	45 ft	Yes	8-12 ft			X	8-12 ft		No	An ornamental and shade tree, it is suitable for hedges, screens and windbreaks. Relatively low wildlife value among oaks.	Readily
Oak, Sawtooth (<i>Quercus acutissima</i>)	Well - Moderately Well	Intermediate	50 ft	70 ft	No		X		X	15-20 ft		Plant Facts	Wildlife oak that produces heavy amounts of small acorns attractive to many animal species. Relatively fast growing.	Somewhat Available
Oak, Swamp White (<i>Quercus bicolor</i>)	Somewhat Poorly	Intermediate	30 ft	100 ft	Yes		X		X	8-12 ft		Plant Guide	Requires moist acidic conditions. Important food for wildlife such as squirrels, black bear, ducks and turkey. Often hybridizes.	Readily
Oak, White (<i>Quercus alba</i>)	Well - Moderately Well	Intermediate	30 ft	100 ft	Yes	8-12 ft	X		X	8-12 ft	20 X 20 ft	Plant Facts	Extremely important as a timber and wildlife food tree. Slow growing and often difficult to establish.	Readily
Paulownia, Royal (<i>Paulownia tomentosa</i>)	Well - Moderately Well	Intermediate	60 ft	70 ft	No						10 - 20 ft	No	Rapidly growing introduced species. Specialized commercial timber species. Often escapes and has no known wildlife value.	Readily
Persimmon, Common (<i>Diospyros virginiana</i>)	Well - Somewhat Poorly	Intermediate	25 ft	50 ft	Yes		X			8-12 ft		Plant Guide	Used by raccoon, opossum, and various birds, including quail, wild turkey and cedar waxwing. Slow growing and difficult to transplant.	Somewhat Available
Pine, Austrian (<i>Pinus nigra</i>)	Well - Somewhat Poorly	Intermediate	35 ft	100 ft	No	6-7 ft		X		8-12 ft		No	Non-native used mainly for ornamentals, screens and as a reclamation plant. Used as winter cover for various bird species.	Readily
Pine, Eastern White (<i>Pinus strobus</i>)	Well - Somewhat Poorly	Intolerant	40 ft	130 ft	Yes	6-7 ft	X	X	X	8-12 ft	6 - 8 ft	Plant Facts	Squirrels and 16 species of songbirds have been known to eat the seed. Native pine with commercial timber and ornamental value.	Readily
Pine, Loblolly (<i>Pinus taeda</i>)	Well - Somewhat Poorly	Tolerant	50 ft	100 ft	No	6-7 ft	X	X		8-12 ft	6 - 8 ft	No	Important timber species. Provides some cover and browse in winter months to wildlife.	Readily
Pine, Scotch (<i>Pinus sylvestris</i>)	Well - Moderately Well	Intolerant	30 ft	110 ft	No	6-7 ft		X		8-12 ft		Plant Facts	Used in windbreaks as the central or leeward rows of multi-row plantings. Important Christmas tree species. Some wildlife use.	Readily
Pine, Virginia (<i>Pinus virginiana</i>)	Well - Moderately Well	Intermediate	25 ft	70 ft	Yes	6-7 ft	X	X		8-12 ft	6 - 8 ft	No	Native pine used primarily as pulpwood. Provides some wildlife food and cover. Sometimes used in windbreaks and screens.	Readily
Poplar, Yellow (<i>Liriodendron tulipifera</i>)	Moderately Well - Somewhat Poorly	Intolerant	50 ft	120 ft	Yes		X		X	10-15 ft		Plant Facts	Fast growing. Attractive ornamental but very large. Important timber species in WV. Provides some secondary wildlife food.	Somewhat Available
Redbud, Eastern (<i>Cercis canadensis</i>)	Well - Somewhat Poorly	Tolerant	16 ft	16 ft	Yes		X			5-8 ft		Plant Guide	Many birds, including bobwhite quail, eat the seeds. Honeybees use the blossoms. Often planted as an ornamental.	Readily
Redcedar, Eastern (<i>Juniperus virginiana</i>)	Well - Somewhat Poorly	Intermediate	25 ft	80 ft	Yes	8-12 ft	X	X		8-12 ft		Plant Facts Plant Guide	Eastern redcedar provides habitat for a variety of wildlife. Specific to limestone associated sites. Cedar-apple rust host.	Readily
Serviceberry, Common (<i>Amelanchier arborea</i>)	Well - Somewhat Poorly	Tolerant	20 ft	50 ft	Yes	8-12 ft	X			8-12 ft		Plant Guide	At least 40 bird species, rabbits, chipmunks, mice, voles, foxes, and black bears eat the fruit. Widely used as an ornamental.	Readily
Spruce, Norway (<i>Picea abies</i>)	Well - Somewhat Poorly	Intermediate	35 ft	120 ft	No	8-12 ft *		X		8-12 ft		No	Important as a windbreak, screen and ornamental. Winter cover for some resident birds. Mourning doves utilize this tree for nesting.	Readily
Spruce, Red (<i>Picea rubens</i>)	Well - Moderately Well	Tolerant	25 ft	110 ft	Yes	8-12 ft	X	X	X	8-12 ft		Plant Facts	One of the most important timber and wildlife species in North America. Site specific above 3000 feet in eastern counties of WV .	Readily
Spruce, White (<i>Picea glauca</i>)	Well - Somewhat Poorly	Intermediate	30 ft	100 ft	No	8-12 ft	X	X		8-12 ft		Plant Guide	Important for screens, timber and ornamental. Winter cover and food for some birds. Hybridizes freely. Native to the northeast.	Readily
Sycamore, American (<i>Platanus occidentalis</i>)	Moderately Well - Poorly	Intermediate	50 ft	100 ft	Yes				X	8-12 ft		Plant Guide	Very quick growing and large. Slow decaying leaves. Prone to disease. Found along streambanks and a variety of other sites.	Readily
Sweetgum (<i>Liquidambar styraciflua</i>)	Well - Somewhat Poorly	Intolerant	40 ft	80 ft	Yes	8-12 ft			X	8-12 ft		Plant Facts Plant Guide	Prefers deep soils for root development. Important as a timber, wildlife and ornamental. Tolerates a variety of sites and conditions.	Readily
Walnut, Black (<i>Juglans nigra</i>)	Well - Moderately Well	Intermediate	35 ft	100 ft	Yes		X		X	10-20 ft	20 X 20 ft	Plant Facts Plant Guide	Prefers deep well drained soils. Important as a timber and nut crop tree. Produces juglone that inhibits competition.	Readily

* These species may be utilized as stock trainers for high quality timber production.